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January 16, 2004

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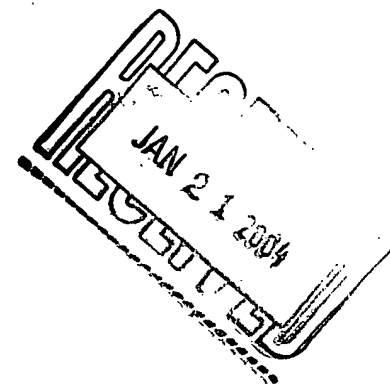
JAN 20 2004

Technology Center 2100

USPTO

Patent Examination Office

In Reply To: Voluntary Amendment.  
Application No: 09/885,076  
Application Name: COLLECTION CONTENT CLASSIFIER



Dear Examiner:

This letter is a voluntary addition to the present pending application.

The purpose of this letter is to clarify my use of special lexicographic terms in the present application, and thereby save the USPTO examiner and myself unnecessary work reviewing, citing, and responding to irrelevant prior art.

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## **2 Introduction**

### **2.1 The issue is reciting irrelevant prior art**

The main problem that I hope to address in this letter is the needless recitation of irrelevant prior art, either by me, or by the USPTO. Citing and responding to irrelevant prior art wastes time and effort for all parties involved.

In particular, because I am an unpaid pro se inventor, I believe the costs of responding to irrelevant prior art bother me more than the US Patent and Trademark office.

### **2.2 I was told by a USPTO PAC examiner not to do it**

I phoned the USPTO PAC (Patent Assistance Center) to inquire about the utility of me citing irrelevant prior art on my applications, just to show some prior art for prosecution purposes. I had read that some people (including examiners) believed that a patent application was “stronger” if it showed some prior art during its prosecution.

*The USPTO PAC examiner directly told me to NOT send them “useless or irrelevant” prior art references that they had to review unnecessarily.*

### **2.3 But irrelevant prior art is being cited against my applications**

Accordingly, I have not cited any irrelevant prior art in my patent pending application. Perhaps my course of action was not the wisest one, because I find myself responding to *clearly irrelevant* prior art on many of my applications.

### **2.4 The main cause is my use of special lexicographic terms**

The main cause of the issue appears to be my use of special lexicographic terms involving the word “collection.”

In my applications, I define “collection” to be an inventive data structure that is practical, novel, and non-obvious to those skilled in the programming arts. Collections are practically useful in the construction of totally automated collection processing systems, where no human labor is involved.

However, examiners sometimes miss this special lexicographic use of the word “collection,” and apparently think that my application is using the common dictionary meaning of the word. Examiners often perform a full text search on the prior art for my keyword “collection,” and then cite various search results as prior art against my application.

As you might appreciate, any prior art that uses the word “collection” in accordance with the normal dictionary meaning must be irrelevant to my own application, because we use the word to mean two different things. I mean an inventive data structure, and the searched-for prior art means “a collection or group of things.”

## **2.5 Goals of this letter**

In this letter, I hope to remind examiners of three things:

- That I use special lexicographic terms such as “collection”, as permitted by US patent law.
- That the special terms refer to inventive collection data structures that are statutory subject matter.
- That my claims each recite these special lexicographic terms to embody my inventive data structures in my claims, to limit the claims.
- That prior art which uses the word “collection” in the normal dictionary sense is very, very, likely to be irrelevant.

Accordingly, I respectfully request examiners to consider these factors when citing prior art against my pending applications. I am only a pro se inventor, so the needless time and

effort costs imposed on me by responding to irrelevant prior art have a large impact on my limited resources.

### 3 My Claims Recite Specific Inventive Structures

Past office actions on other patent applications have rejected all my claims and made the argument that my claims read on some piece of irrelevant prior art. Other prior art is cited as pertinent, but is not used as justification for rejecting my claims.

I disagree with such office actions because my claims recite many novel inventive data structures and processes that are not shown by the prior art.

#### 3.1 My claims recite specific inventive data structures in Wherein Clauses

My line of reasoning is typically as follows:

- My claims all contain “wherein” clauses that recite my inventive data structures.
- For example, one of my claims recites “wherein **collections** are data structures comprised of a **collection specifier** and **collection content** containing zero or more collection content files.” Each of these special lexicographic terms is specially defined in the application, and is part of one or more inventive data structures that form part of my invention.
- Each wherein clause severely limits one of my claims to the specific inventive collection data structures described in my application.

The past office actions have never shows a convincing line of reasoning that suggests how a person of ordinary skill in the programming arts would be able to reach my inventive data structures and features by reading the cited prior art.

## **4 My Special Definitions and Terminology**

This section shows that I act as my own lexicographer, and give special meaning to the keywords “collection” and derivative terms such as “collection specifier,” “collection content,” “collection type,” “collection type definition,” and “collection recognizer.”

### **4.1 I act as my own lexicographer and define special meanings for key words.**

As permitted by patent laws, I act as my own lexicographer and define special meanings for key words in the present application. My non-dictionary meanings of words such as “collection” are commonly misconstrued by patent examiners.

For example, Canadian patent examiners would often perform a simple text search of the prior art using the keyword “collection” to identify possible relevant prior art. However, the prior art found in this way always used the keyword “collection” for its normal dictionary meaning. As you can see, any irrelevant prior art patent might use the word “collection” in the dictionary way. Yet the Canadian examiners cited the found search results as relevant prior art anyway. This practice does not seem fair or proper to me, citing irrelevant prior art on the basis of a keyword search.

I respectfully request that USPTO examiners consider my special lexicographic definitions when they cite prior art against the present application. As one USPTO examiner told me, “responding to irrelevant prior art is a waste of time.”

The following sections give **examples** of my special lexicographic definitions for “collection” words and phrases. My hope is that by listing them here, USPTO examiners will find it easier to compare my special meanings with normal dictionary meanings.

### **4.2 Definition of “collection”**

From the application, “Collection is a term that refers to the union of a collection specifier and a set of collection content.”

In essence, a collection is a software “container” (a software abstraction) that enables automated computer programs to “see, grasp, and manipulate” sets of related computer files.

Technically speaking, collections are inventive data structures whose existence is marked by a special file (collection specifier) that must associate itself with a specific user-defined set of rules (collection data type) for processing the collection. The processing rules are implemented in a special file (collection type definition) that is stored external to the collection, and that can be shared among all collections that associate themselves with that particular data type.

#### **4.3 Definition of “collection specifier”**

Collection specifiers contain information about a collection instance.

For example, collection specifiers may define such things as the collection type, a text summary description of the collection, collection content members, derivable output products, collection processing information such as process parallelism limits, special collection processing steps, and program option overrides for programs that manipulate collections.

Collection specifiers are typically implemented as simple key-value pairs in text files or database tables. FIG 3 shows an example physical representation of a collection specifier 102, implemented as a simple text file such as would be used on a typical personal computer filesystem.

From Page 18 of the application, “a collection specifier typically contains at least a collection type indicator FIG 8 Line 4 to link a collection instance to a collection type definition.”

#### **4.4 Definition of “collection content”**

Collection content is the set of all files and directories that are members of the collection. By convention, all files and directories recursively located within an identified set of subtrees are usually considered to be collection members. In addition, collection

specifiers can contain collection content directives that add further files to the collection membership. Collection content is also called collection membership.

#### **4.5 Definition of “collection type definition”**

Collection type definitions are user-defined sets of attributes that can be shared among multiple collections. In practice, collection specifiers contain collection type indicators that reference detailed collection type definitions that are externally stored and shared among all collections of a particular type. Collection type definitions typically define such things as collection types, product types, file types, action types, administrative policy preferences, and other information that is useful to application programs for understanding and processing collections.

#### **4.6 Definition of “collection information”**

Collection information is a term that refers to the union of collection specifier information, collection type definition information, and collection content information.

Collection information is comprised of three major parts: (1) a collection specifier that contains information about a collection instance, (2) a collection type definition that contains information about how to process all collections of a particular type, and (3) optional collection content in the form of arbitrary computer files that belong to a collection.

#### **4.7 My inventive collections are not part of the prior art**

My inventive collection data structures, and the methods and apparatuses for processing collections, are the subject matter of several of my patent applications.

Since my applications are based on practical, novel, and non-obvious data structures that are not described in the prior art in any convincing way, my inventions do not read on the prior art.



## **5 Application Title and FIG Wording**

Two past office actions have requested better titles for my inventions. I believe this happened because my titles contain the word “collection,” which I use to mean my inventive data structures, which are a central part of my applications.

For an example, I have provided one of my responses below, to show the reasons why I think my use of the word “collection” in titles is appropriate, and how it supports the efforts of future text-searchers who want to find all instances of patent applications related to my inventive collection data structures, methods, and apparatuses.

### **5.1 Response to Title Objection**

The office action claims that the present title “Collection Recognizer” is not indicative of the invention to which the claims are directed.

I disagree, and argue that the title is very indicative and precise for the subject matter that is being claimed.

The applicant carefully considered alternative title choices for the present invention and patent application, and came to the conclusion that “Collection Recognizer” best identified and represented the essence of both the invention and patent application document. No other title constructions seemed as good to the applicant.

In defense of the current title, there are only two words to consider.

“Collection” is a special lexical term that refers to the core inventive data structure underlying many of the applicant’s patent pending applications. It is reasonable to give such an inventive data structure a representative name, and to carry that name into the titles of further inventions that work with the data structure, thereby distinguishing said inventions from other inventions that work with non-collection data structures.

“Recognizer” is a word that represents the essential operation of the present invention—which is a system and method for automatically recognizing inventive collection data structures within computer filesystems, with no human labor involved.

“Collection Recognizer” is also a special lexical term that refers to a method and system for recognizing inventive collection data structures *that are essential and relevant to the invention*. It is reasonable to put this term into the title of a patent application whose central function is to recognize collection data structures.

Finally, the presence of the word “Collection” in the title will help future prior art researchers to find patent applications that work with inventive collection data structures.

The applicant respectfully submits that the current title is a reasonable title because it both accurately and concisely reflects the essence of the present invention, as explained above.

Accordingly, the applicant respectfully requests withdrawal of the present objection.

## **5.2 Response to FIG Abbreviation Objection**

The office action objects to my use of “FIG” for an abbreviation of “Figure,” and states that appropriate correction is required.

The office action prefers to see “FIG.” (with a following period) instead of the “FIG” which I have used.

I will comply with the office request if it is confirmed after this response. But I would like to explain why my use of “FIG” is reasonable in the context of today’s computer and word processing technology.

Placing a period after “FIG.” Confuses my Microsoft word processor in several ways.

- First, the presence of a period tells the word processor that an end of sentence has occurred. This causes the word processor to take actions appropriate to an end of sentence in the text.
- Second, the word processor inserts a larger than normal gap between FIG and the following number.

- Third, the word processor capitalizes the word that follows a FIG. Symbol, as this sentence shows.
- Fourth, a missing period does not reduce the readability of a patent application in any meaningful way.

Therefore it seems like a waste of time for both the USPTO and for me to replace all instances of FIG with “FIG.” In the present application (see, another instance of incorrect capitalization). Adding a period would consume another 50 pages of paper, and incur the unnecessary expenses of (1) me making the requested conversion, (2) paper and printing, (3) mailing costs, (4) USPTO receiving costs, (5) electronic scanning costs, and (6) an examiner’s proofreading costs for enforcement.

These reasons suggest that the office FIG objection—and requested solution—are unreasonable for any readability benefits that might possibly be obtained, if and when anyone ever reads the present application in the future.

It seems to me that we should concentrate our efforts on more meaningful things such as legitimate claim objections and responses.

Again, I will comply with your request if you confirm it with another office action. But I respectfully request the office to reconsider and withdraw this objection.

## **6 Summary of This Letter**

In this letter, I have tried to save the USPTO and myself needless prosecution effort caused by reciting irrelevant prior art and objecting to patent application titles containing the word “collection.”

My approach was to explain why I chose the claim and title wordings that are present in the application. In particular, I tried to show how I act as my own lexicographer, and assign special meanings to words such as “collection.”

I hope that this letter will make it easier for the USPTO to properly prosecute my patent pending applications.

Respectfully yours,

A handwritten signature in black ink, appearing to read 'K Jameson', written in a cursive style.

Kevin W Jameson

## CLAIMS

I claim:

1. A collection content classifier process for producing classification information for collections, to be performed on or with the aid of a programmable device, comprising the following steps:

- (a) determining collection membership information for a collection being processed, and

- (b) making said collection membership information available for use by software programs,

wherein collections are data structures comprised of a collection specifier and collection content containing zero or more collection content files, and wherein a collection specifier contains information about a collection instance, and wherein collection membership information describes collection content

thereby providing a solution to the collection content membership problem, and thereby enabling application programs to determine collection membership information in an automated, scalable way that was not previously available.

2. The process of claim 1, wherein

- (a) said step of determining collection membership information uses collection multiple product specification information,

thereby providing a solution to the collection multiple product problem, and thereby enabling application programs to determine collection membership information for multiple collection products in an automated, scalable way that was not previously available.

9. A programmable collection content classifier device for producing classification information for collections, whose actions are directed by software executing a process comprising the following steps:

(a) determining collection membership information for a collection being processed, and

(b) making said collection membership information available for use by software programs,

wherein collections are data structures comprised of a collection specifier and collection content containing zero or more collection content files, and wherein a collection specifier contains information about a collection instance, and wherein collection membership information describes collection content,

thereby providing a solution to the collection content membership problem, and thereby enabling application programs to determine collection membership information in an automated, scalable way that was not previously available.

10. The programmable device of claim 9, wherein

(a) said step of determining collection membership information uses collection multiple product specification information,

thereby providing a solution to the collection multiple product problem, and

thereby enabling application programs to determine collection membership information for multiple collection products in an automated, scalable way that was not previously available.

17. A computer readable memory, encoded with data representing a collection content classifier computer program that can be used to direct a computer when used by the computer, comprising:

(a) means for determining collection membership information for a collection being processed, and

(b) means for making said collection membership information available for use by software programs,

wherein collections are data structures comprised of a collection specifier and collection content containing zero or more collection content files, and wherein a collection specifier contains information about a collection instance, and wherein collection membership information describes collection content,

thereby providing a solution to the collection content membership problem, and thereby enabling application programs to determine collection membership information in an automated, scalable way that was not previously available.

18. The computer readable memory of claim 17, wherein

(a) said means for determining collection membership information uses collection multiple product specification information,

thereby providing a solution to the collection multiple product problem, and thereby enabling application programs to determine collection membership information for multiple collection products in an automated, scalable way that was not previously available.